

In the Claims

1-25. (Canceled)

26. (Previously Presented) A method for a communications network to restore private communication information to a communication directed to an out-of-network entity, comprising:

- removing the private communication information from the communication and storing the private communication information;
- forwarding the communication outside the network to the out-of-network entity;
- receiving, into the network, an outgoing communication from the out-of-network entity;
- retrieving the private communication information and placing the private communication information into the outgoing communication; and
- forwarding the outgoing communication to a forwarding destination within the network.

27. (Previously Presented) The method of claim 26, wherein removing and storing the private communication information comprises:

- receiving the communication at a routing module and activating a trigger provisioned on the routing module;
- sending a query to a database at a control module in communication with the routing module;
- recognizing, at the control module, that the communication is to the out-of-network entity; and
- removing the private communication information using the control module, and storing the private communication information in a database in communication with the control module.

28. (Previously Presented) The method of claim 26, wherein retrieving the private communication information and placing the private communication information into the

outgoing communication comprises:

generating a transaction identification, storing the transaction identification with the private communication information, and attaching the transaction identification to the communication, before forwarding the communication outside the network.;

activating a trigger provisioned on a routing module;

sending a query to a control module in communication with the routing module;

recognizing, at the control module, that the outgoing communication is from the out-of-network entity; and

locating the private communication information using the transaction identification, and inserting the private communication information in the outgoing communication.

29. (Previously Presented) The method of claim 26, wherein the outgoing communication is a call and the call includes a customized dialing plan code and the trigger is a customized dialing plan trigger.

30. (Previously Presented) The method of claim 26, wherein the out-of-network entity provides an enhanced service selected from the group consisting essentially of a call forwarding service, a call screening service, and an announcement service.

31. (Currently Amended) A method for a network to restore private communication information to an outgoing communication from an entity external to the network, comprising:

removing and storing the private communication information of an incoming communication to the external entity, and;

associating a transaction identification with the private communication information and the incoming communication;

sending the incoming communication to the external entity;

associating the outgoing communication with the transaction identification from the incoming communication and sending the outgoing communication into the network;

retrieving the private communication information using the transaction

identification; and

inserting the private communication information into the outgoing communication.

32. (Previously Presented) The method of claim 31, wherein the private communication information is a calling number and a privacy indicator of the incoming communication.

33. (Previously Presented) The method of claim 31, wherein the external entity determines a forwarding destination according to an enhanced service that the external entity provides and initiates the outgoing communication to the forwarding destination.

34. (Previously Presented) The method of claim 33, further comprising:

sending the outgoing communication to the forwarding destination; and  
terminating the incoming communication to the outgoing communication.

35. (Previously Presented) A system for providing calling number restoral, comprising:

a routing module provisioned with an incoming trigger and an outgoing trigger;  
an out-of-network entity in communication with the routing module; and  
a control module in communication with the routing module,

wherein the system removes private call information from a call exiting a telephone network, stores the private call information, and restores the private call information to the call when the call re-enters the network.

36. (Previously Presented) The system of claim 35, wherein the incoming trigger sends a first query to the routing module in response to receiving the call to the out-of-network entity.

37. (Previously Presented) The system of claim 36, wherein the first query prompts the routing module to remove and store the private call information from the call, to generate a transaction identification, to store the transaction identification with the stored private call information, to attach the transaction identification to the call, and to send the call to

the out-of-network entity.

38. (Previously Presented) The system of claim 37, wherein the outgoing trigger sends a second query to the routing module in response to receiving the call from the out-of-network entity.

39. (Previously Presented) The system of claim 38, wherein the second query prompts the routing module to locate the private call information and insert the private call information into the call based on the transaction identification.

40. (Previously Presented) The system of claim 35, wherein the out-of-network entity serves an enhanced service provider.

41. (Previously Presented) The system of claim 35, wherein the out-of-network entity receives an incoming call, places an outgoing call, and terminates the incoming call to the outgoing call to complete a call connection.

42. (Previously Presented) The system of claim 35, wherein the out-of-network entity communicates with the routing module through an integrated services digital network basic rate interface.

43. (Previously Presented) The system of claim 35, further comprising:  
a database provisioned at the control module; and  
a service package application provisioned at the control module.

44. (Previously Presented) A routing module residing within a network for removing, storing, and restoring private communication information of an out-of-network communication, comprising:

means for communication with a control module residing within the network for removing and storing the private communication information from the out-of-network communication destined for the out-of-network entity prior to communicating with the

out-of-network entity and for restoring the private communication information to the out-of-network communication from the out-of-network communication entity prior to forwarding the communication to a network entity;

means for communicating with an out-of-network entity;

an incoming trigger that sends a first query to the control module in response to receiving the out-of-network communication destined for the out-of-network entity; and

an outgoing trigger that sends a second query to the control module in response to receiving the out-of-network communication from the out-of-network entity destined for the network entity.

45. (Previously Presented) The routing module of claim 44, wherein the out-of-network entity provides an enhanced service.

46. (Previously Presented) The routing module of claim 44, wherein the control module removes and stores the private communication information in response to the first query and restores the private communication information in response to the second query.

47. (Previously Presented) A control module for preventing private communication information from exiting a network, comprising:

means for removing the private communication information from a communication exiting the network;

means for storing the private communication information;

means for retrieving the private communication information; and

means for restoring the private communication information to a communication entering the network.

48. (Previously Presented) The control module of claim 47, wherein the means for removing, the means for restoring, and the means for retrieving comprise a service package application.

49. (Previously Presented) The control module of claim 47, wherin the means for storing

the private communication information comprises a database.

50. (Previously Presented) The control module of claim 47, wherein the means for retrieving the private communication information comprises a transaction identification.